APPURTENANCES AND SERVICE TO PROVIDE A COMPLETE AND FUNCTIONING ELECTRICAL SYSTEM AS SHOWN ON THE DRAWINGS AND SPECIFIED IN THESE SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE ALL MINOR ITEMS WHICH ARE OBVIOUSLY AND REASONABLY NECESSARY FOR COMPLETION OF THE PROJECT. THE TERMS "CONTRACTOR" OR "ELECTRICAL CONTRACTOR" AS USED IN THE REQUIREMENTS OF THESE CONTRACT DOCUMENTS SHALL REFER TO THE CONTRACTOR PROVIDING ELECTRICAL INSTALLATIONS UNDER THIS CONTRACT. THE ENTIRE INSTALLATION SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST-CLASS WORKMANLIKE MANNER. THE CONTRACTOR SHALL BE A LICENSED MASTER ELECTRICIAN IN THE COMMONWEALTH OF VIRGINIA AND SHALL HOLD A CLASS OF LICENSE THAT IS APPROVED BY THE COMMONWEALTH FOR THIS SIZED PROJECT.

PPLICABLE CODES AND STANDARDS

THE LATEST EFFECTIVE PUBLICATIONS OF THE FOLLOWING STANDARDS, CODES, ETC., AS APPLICABLE FORM A PART OF THESE SPECIFICATIONS THE SAME AS IF WRITTEN FULLY HEREIN AND SHALL BE FOLLOWED AS MINIMUM REQUIREMENTS. MINIMUM REQUIREMENTS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF FURNISHING AND INSTALLING HIGHER GRADE MATERIALS AND WORKMANSHIP THAN THEREIN SPECIFIED. NATIONAL ELECTRICAL CODE

ROTECTION ASSOCIATION (NFPA) ABORATORY (UL)

NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA)

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

VIRGINIA UNIFORM STATEWIDE BUILDING CODE

IN ADDITION, THE NATIONAL ELECTRICAL CODE TOGETHER WITH APPLICABLE STATE AND CITY ORDINANCES OR REGULATIONS SHALL BE CONSIDERED AS ESTABLISHING THE MINIMUM REQUIREMENTS FOR THE WORK UNDER THIS CONTRACT. CONTRACTOR SHALL ASCERTAIN THE EXISTENCE OF AND COMPLIANCE WITH ANY INTERPRETATIONS AND/OR ENFORCEMENT POLICIES OF THE LOCAL ENFORCEMENT AGENCIES OR INDIVIDUALS PECULIAR TO THIS AREA OR TO THIS PARTICULAR INSTALLATION. WHERE THESE REQUIREMENTS CALL FOR MATERIALS OR CONSTRUCTION OF BETTER/SUPERIOR QUALITY OR LARGER SIZE/CAPACITY THAN REQUIREMENTS SHALL TAKE PRECEDENCE. ANY MODIFICATIONS TO THE CONTRACT WORK REQUIREMENTS SHALL TAKE PRECEDENCE. ANY MODIFICATIONS TO THE CONTRACT WORK REQUIRED BY SUCH AUTHORITIES SHALL BE AT THE EXPENSE OF THE OWNER, SUBJECT TO THE RECEIPT OF AN AFFIDANT OR LETTER FROM THE GOVERNING BODY AND OWNER'S PRIOR APPROVAL OF ANY ADDITIONAL COST TO BE INCURRED. ALL PERMITS AND LICENSES NECESSARY FOR THE PROPER EXECUTION OF THE WORK SHALL BE SECURED AND PAID FOR BY THE CONTRACTOR INVOLVED.

THESE SPECIFICATIONS ARE ACCOMPANIED BY FLOOR PLANS AND DETAILS OF THE BUILDING ELECTRICAL SYSTEMS, AND WHAT IS CALLED FOR BY ONE SHALL BE AS BINDING AS CALLED FOR IN BOTH.
OBTAIN NECESSARY PERMITS, AND PAY PERMIT AND INSPECTION FEES.

1.05 EQUIPMENT MARKING AND PAINTING

SAFETY SWITCHES, PANELBOARDS, SWITCHBOARDS, CABINETS, ETC. SHALL BE PROVIDED WITH PERMANENTLY ATTACHED, ENGRAVED BAKELITE DESIGNATION PLATES TO INDICATE EQUIPMENT OR CIRCUIT CONTROLLED AS DETAILED ON SHEET E-1.

STARTERS, CONTROLLERS, THERMOSTATS, FAN SWITCHES, INDICATING LIGHTS, ETC. AND CONTROL WIRING LESS THAN 120 VOLTS SHALL BE PROVIDED UNDER THE DIVISION PROVIDING THE RESPECTIVE MOTOR AND/OR EQUIPMENT UNLESS OTHERWISE INDICATED. ALL 120 VOLT WIRING SHALL BE PROVIDED UNDER DIVISION 16000 "ELECTRICAL". POWER WIRING AND POWER CONNECTIONS TO ALL EQUIPMENT SHALL BE PROVIDED UNDER DIVISION 16000 "ELECTRICAL" UNLESS OTHERWISE INDICATED ON THE ELECTRICAL

œ

SUBSTITUTED MOTORS AND/OR EQUIPMENT REQUIRE ELECTRICAL MODIFICATIONS TO SUBSTITUTED MOTORS AND/OR EQUIPMENT, THE COST OF THE ELECTRICAL MODIFICATIONS, PATED WORK AND COORDINATION SHALL BE INCLUDED.

MINE ELECTRICAL REQUIREMENTS OF OTHER DIVISIONS IN ORDER TO FULLY STAND WIRING AND PROVIDE AS REQUIRED FOR COMPLETE AND SATISFACTORY STAND OF PROJECT. MAKE CONNECTIONS FOR OTHER DIVISIONS WHERE REQUIRED.

Y03 ROM DP. 9

SPECIFICATIONS:

• MAKE: 1/16" 1/4" | ENGRAVING MATERIAL ETTERS (MIN.) PLATE

SIZE: COLOR: SELF ADHESIVESEE MANUFACTURERS INSTRUCTIONVERIFY PLATE SIZE WILL FIT ON PROVIDE LABELS FOR CHILLER F SIZE MAY / WHITE LE

INSTRUCTIONS FOR INSTALLATION. ILL FIT ON EQUIPMENT BEFORE ORDERING. CHILLER PANEL FURNISHED WITH THE CHI

CHILLER

ANEL IDENTIFICATION

Dec 09, 2015 - 9:23am

C:\Users\Matt\appdata\local\temp\AcPublish\_38840\15088 CHILLER.dwg

PART GENERAL

APPROVED LABELING FURNISHED UNDER THESE S
BY UNDERWRITERS' LABORA
SERVICE IS AVAILABLE.

PANELBOARDS, AND DISCONNECT SWITCHES SHALL MANUFACTURER. WIRING DEVICES SHALL BE MANUI BE MANUFACTURED BY THE SAME -ACTURED BY ONE MANUFACTURER.

2.01

2 - PRODUCTS MATERIALS, OR MATERIAL DAMAGED IN

2.01 REPLACE OR REPAIR DEFECTIVE EQUIPMENT THE COURSE OF INSTALLATION OR TESTS.

PART 3 - EXECUTION

3.01 MATERIAL AND EQUIPMENT SHALL BE PROPERLY STINSTALLED. ORED AND PROTECTED UNTIL

2.02

16111 FIRST CLASS AND WORKMANLIKE MANNER AND RUN BUILDING, EXCEPT AS INDICATED.

INSTALL MATERIALS IN A CONCEALED THROUGHOUT

1 - GENERAL

1.01

CONDUIT SHALL BE RUN CONCEALED, EXCEPT CON JOISTS, IN ELECTRICAL ROOMS AND SPACES WITH

2.01 PART PRODUCTS

CONDUIT AND FITTINGS SHALL CONFORM TO THE FOLLOWING: A. INTERMEDIATE METAL CONDUIT - UL - 1242

B. ELECTRICAL METALLIC TUBING (EMT) - ANSI C80.3

MINIMUM SIZE CONDUIT SHALL BE  $3/4^{\circ}$  WITH LARGER SIZES AS REQUIRED BY THE NATIONAL ELECTRICAL CODE FOR NUMBER OF WIRES CONTAINED THEREIN.

**TUBING** SHALL BE HOT DIPPED GALVANIZED EXCEPT AS HEREINBEFORE

CONDUIT AND SPECIFIED.

INTERMEDIATE METAL CONDUIT SHALL OF THE NATIONAL ELECTRICAL CODE. WHERE ALLOWED IN ARTICLE 345

PROVIDE O.Z. JOINTS. "AX" EXPANSION FITTINGS WHERE CONDUITS CROSS EXPANSION

2.07 2.06 PROVIDE O.Z. TYPE "M" CABLE SUPPORTS AS REQUIRED BY ARTICLE 300-19 NEC.

CONDUIT TERMINATIONS ONE AND ONE—QUARTER INCH AND LARGER AND CONDUIT STUBS SHALL HAVE O.Z. TYPE "B" INSULATING BUSHINGS. RIGID CONDUIT TERMINATIONS ONE INCH AND SMALLER SHALL HAVE O.Z. TYPE "A" INSULATING BUSHINGS.

CONDUIT CONCEALED IN WALLS ELECTRICAL METALLIC TUBING. AND SHALL BE THIN-WALL TYPE

CONDUIT SHALL BE BENDS. RUN CONTINUOUS OUTLETS WITH A MINIMUM NUMBER OF

PART SECTION 16120 1 - GENERAL AND CABLE

1.01 FEEDER AND BRANCH CIRCUIT WIRE CURRENT ADOPTED EDITION OF THE SPECIFICATIONS. SHALL CONFORM TO THE REQUIREMENTS OF THE NEC AND SHALL MEET RELEVANT ASTM

PART 2 - PRODUCTS

2.01 WIRE SHALL BE COPPER 600 VOLT INSULATION, MINIMUM SIZE NO. 12, TYPE "THWN/THHN" (WITH AMPACITIES BASED ON TYPE "THWN") OR "XHHW" AS APPLICABLE UNLESS OTHERWISE INDICATED ON DRAWINGS. TERMINATIONS AND CONNECTIONS SHALL BE APPROVED FOR THE TYPE/SIZE OF CONDUCTOR BEING USED.

2.03 WIRES NO. 10 AND 12 SHALL BE CONNECTED WITH COIL SPRINGS INSERT "WIRE-NUT" OR "WING-NUT" CONNECTORS. CONNECTORS SHALL BE RATED 600 VOLTS. WIRES NO. 8 AND LARGER SHALL BE JOINED OR TERMINATED WITH PRESSURE TYPE COPPER CONNECTORS.

PART EXECUTION

ALL WIRING SHALL 쁌 INSTALLED IN

3.01

3.02 MATCH EXISTING
SHALL BE CONNE
THE INSTALLATION
277/480 VOLT COLOR CODING, AND EACH CIRCUIT

WIRE SHALL BE COLOR CODED TO ME CONDUCTOR OF THE SAME COLOR SINGLE FEEDER CONDUCTOR THROUGHOUT THE SAME COLOR SINGLE A BLACK PHASE B RED PHASE C BLUE NEUTRAL WHITE GROUND GREEN

BROWN
ORANGE
YELLOW
GRAY
GRAY
GREEN WITH YELLOW STRIPE

HEAT 120 VO VOLT \*\*. TAPE

ECIFICATIONS:

• MAKE:

SIZE:COLOR: 1/16" ENGRAVING MATERIAL
1/4" LETTERS (MIN.) PLATE SIZE MAY VARY
COAL BLACK BACKGROUND / WHITE LETTERI

SELF ADHESIVE
SEE MANUFACTURERS INSTRUCTIONS FOR INSTALLATION.
VERIFY PLATE SIZE WILL FIT ON EQUIPMENT BEFORE ORDERING.
FIELD VERIFY CIRCUIT NUMBER.

TAPE BREAKER IDENTIFICATION DETAIL

ENCLOSED

70

PART 1 - GENERAL OUTLET

FIXTURE OUTLETS, F SHALL HAVE STEEL ELECTRICAL CODE A

PART 2 - PRODUCTS

OUTLET BOXES SHALL BE HOT DIPPED GALVANIZED STEEL TYPE WITH STANDARD KNOCK-OUTS AS REQUIRED FOR CONDUIT TERMINATION. MINIMUM SIZE OF OUTLET BOX SHALL BE FOUR INCHES SQUARE, ONE AND ONE-QUARTER INCHES DEEP, AND SHALL BE INCREASED IN DIMENSIONS TO ACCOMMODATE CONDUCTORS AND DEVICES AS REQUIRED BY THE NATIONAL ELECTRICAL CODE, AND AS INDICATED. OUTLET BOXES FOR EXPOSED TILE AND BLOCK SHALL BE PROVIDED WITH SQUARE CORNERED TILE RING, SIZE AS REQUIRED.

SHALLOW OUTLET BOXES MAY BE EMPLOYED WHERE CONSTRUCTION PROHIBITS USE OF FOUR INCHES SQUARE, ONE AND ONE-QUARTER INCHES DEEP BOX SPECIFIED ABOVE. CONTRACTOR SHALL CONFIRM SUCH INSTALLATION LOCATIONS WITH OWNERS CONSTRUCTION ADMINISTRATOR PRIOR TO ROUGH IN.

JUNCTION AND PULL BOXES SHALL BE INSTALLED WHERE INDICATED OR NECESSARY FOR INSTALLATION OF THE ELECTRICAL SYSTEM. JUNCTION OR PULL BOXES NOT OVER 100 CUBIC INCHES IN VOLUME SHALL BE STANDARD OUTLET BOXES: JUNCTION BOXES OVER 100 CUBIC INCHES IN VOLUME SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE. JUNCTION BOXES MUST HAVE COVERS AND BE ACCESSIBLE AFTER COMPLETION OF CONSTRUCTION.

3.01

SWITCHES SHALL BE SECURELY MOUNTED TO

WALL, STRUCTURE, OR EQUIPMENT.

30 AMP, 2 POLE, 240 VOLT ENCLOSED CIRCUIT BREAKER WITH 6—30mA GROUND FAULT EQUIPMENT PROTECTION IN NEMA 3R ENCLOSURE. PROVIDE GROUND FAULT PROTECTION IN SEPARATE ENCLOSURE IF NECESSARY. COORDINATE OVERCURRENT RATING AND VOLTAGE WITH EQUIPMENT PROVIDED.

Q

ISCONNECT SWITCH, 3P=3 POLE, 100=AMPERE RATING OF WITCH, \*=FUSE SIZE, FIELD VERIFY FUSE SIZES AND OCUMENT ON RECORD DRAWINGS.

PROVIDE MISCELLANEOUS ACCESSORIES FOR MOUNTING SWITCHES, INCLUDING STEEL ANGLES IN WET LOCATIONS.

2.03

EXECUTION

PART

3.01 OUTLET BOXES OCCURRING IN WET AREAS SHALL BE CAST AND PROVIDED WITH GASKETS BETWEEN BOX AND WATERPROOF COVER.

3.02 CEILING AND BRACKET OUTLETS SHALL BE BOXES SUITABLY SUPPORTED BY HEADERS AND THREE—EIGHTHS INCH FIXTURE STUD FOR SUPPORTING FIXTURES AS REQUIRED. IN AREAS OF EXPOSED STEEL BEAMS FIXTURE SHALL BE SUPPORTED BY STEEL CHANNEL AS REQUIRED. FIXTURES WEIGHING OVER 20 POUNDS SHALL BE SUPPORTED INDEPENDENTLY OF BOX.

OUTLET BOXES IN FINISHED AREAS SHALL BE FLUSH MOUNTED WITH RAISED PLASTER RINGS AND SHALL BE FLUSH WITH FINISH WALL LINE. SURFACE OUTLETS REQUIRING DEVICE PLATES SHALL BE PROVIDED WITH RAISED COVERS SERVING BOTH PURPOSES.

CONDUITS SHALL BE SUPPORTED AT INTERVALS NOT GREATER THAN TEN FEET AND WITHIN THREE FEET OF ANY BEND AND EVERY OUTLET OR JUNCTION BOX, BOTH HORIZONTAL AND VERTICAL RUNS AND AS SPECIFIED BY THE NEC.

CONDUIT SUPPORTS SHALL BE APPROVED WALL BRACKETS, TRAPEZE, STRAP HANGER, OR PIPE STRAPS SECURED TO HOLLOW MASONRY WITH TOGGLE BOLTS, TO BRICK AND CONCRETE WITH EXPANSION BOLTS, TO METAL SURFACES WITH MACHINE SCREWS AND TO WOOD WITH WOOD SCREWS.

3.05

3.04

3.03

CONDUITS AND CABLES PASSING THROUGH FIRE RATED WALLS SHALL OR PROVIDED WITH UL LISTED ASSEMBLY FIRE SEALS TO MAINTAIN "UL" CLASSIFIED FIRE RATING.

WHERE SEVERAL FEEDERS PASS THROUGH A COMMON PULL BOX OR JUNCTION BOX, THE FEEDERS SHALL BE TAGGED TO INDICATE CLEARLY THEIR ELECTRICAL CHARACTERISTICS, CIRCUIT NUMBER, AND PANEL DESIGNATION. MARK SAME INFORMATION ON COVER OF THE BOX.

3.07

SECTION 16140 - WIRING DEVICES

PART 1 - GENERAL

1.01 FURNISH AND INSTALL WIRING DEVICES AND SPECIAL DEVICES AS INDICATED ON DRAWINGS.

PART 2 - PRODUCTS

2.01

DEVICES SHALL BE AS INDICATED ON DRAWINGS. DEVICE PLATES SHALL BE SATIN FINISHED STAINLESS STEEL FOR DEVICE INDICATED

PART 3 - EXECUTION 2.03 SPECIAL DEVICES, TIME SWITCHES, ETC., SHALL BE AS NOTED ON DRAWINGS.

3.01

LOCATION OF WIRING DEVICES SHALL BE AS INDICATED ON DRAWINGS OR AS DIRECTED IN FIELD WHERE SPECIFIC REQUIREMENT FOR LOCATION IS REQUIRED. CONTRACTOR SHALL VERIFY LOCATION OF SPECIAL DEVICES PRIOR TO ROUGHING IN.

IDENTIFY EACH RECEPTACLE WITH PANELBOARD AND CIRCUIT NUMBER FROM WHICH IT IS FED. USE HOT STAMPED MACHINE PRINTING WITH BLACK FILLED LETTERING ON FACE OF PLATE. PROVIDE WIRE MARKERS INSIDE OUTLET BOXES ON ALL WIRING.

3.02

RECEPTACLES, SWITCHES, DEVICES, ETC., REQUIRING OUTLET BOXES L OUTLET BOXES CONSTRUCTED AS REQUIRED BY NATIONAL AND INSTALLED AS INDICATED.

PART 1 - GENERAL

16170

LEGEND

₽

DUPLEX GFI WEATHER RESISTANT CONVENIENCE IN WEATHERPROOF OUTLET BOX. MOUNT 24",

E RECEPTACLE ABOVE FLOOR.

DISCONNECT SWITCHES SHALL BE RATED 240 OR 600 VOLTS AS APPLICABLE WITH NUMBER OF POLES AND CURRENT RATING AS INDICATED. SWITCHES SHALL BE NON FUSIBLE EXCEPT FUSED TYPE WHERE INDICATED AND SHALL CONFORM TO APPLICABLE NEMA STANDARDS. FURNISH AND INSTALL DISCONNECT SWITCHES FOR ALL MOTORS AND EQUIPMENT AS INDICATED ON THE DRAWINGS AND AS REQUIRED BY THE NATIONAL ELECTRICAL CODE AND MANUFACTURER'S RECOMMENDATIONS.

PART 2 - PRODUCTS

2.02

SWITCHES SHALL BE NEMA TYPE "HD" IN NEMA 3R ENCLOSURE.

<u>(m</u>

EQUIPMENT CONNECTION.

HOMERUN TO PANELBOARD, PANELBOARD AND CIRCUIT DESIGNATION AS INDICATED.

PANELBOARD, 208/120 VOLT, 3 PHASE, NEUTRAL.

4 WIRE,

BRANCH CIRCUITS, RUN CONCEALED IN WALLS, UNDERGROUND AND ABOVE CEILING EXCEPT IN EXPOSED CONSTRUCTION AREAS. TICK MARKS INDICATE NUMBER OF PHASE AND NEUTRAL CONDUCTORS IF OTHER THAN TWO. GROUND CONDUCTOR IS INDICATED AS (7). REFER TO PANELBOARD SCHEDULES FOR CONDUCTOR SIZES.

SWITCHES SHALL BE HORSEPOWER RATED WHEN USED FOR MOTOR DISCONNECT MEANS AND SHALL BE PROVIDED AS REQUIRED BY NEC WHETHER INDICATED OR NOT.

FUSED SWITCHES SHALL BE PROVIDED COMPLETE WITH FUSES.

SWITCHES SHALL BE MANUFACTURED BY GENERAL ELECTRIC OR SQUARE-D

2.04

LINE WEIGHT LEGEND

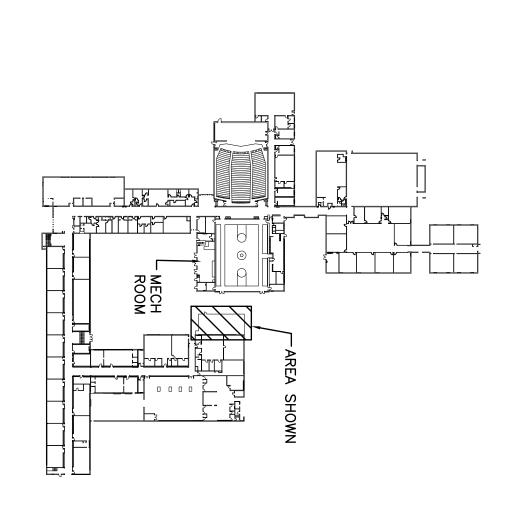
DARK SOLID LINE TYPE INDICATES NEW T0 **PROVIDED** 

DARK DASHED LINE TYPE INDICATES ITEM TO BE REMOVED

LIGHT SOLID LINE TYPE INDICATES EXISTING 70 REMAIN

**ABBREVIATIONS** 

AUTOMATIC TRANSFER SWITCH
EMERGENCY DISTRIBUTION PANEL
GROUND FAULT CIRCUIT INTERRUPTER
THOUSANDS CIRCULAR MILS
MAIN DISTRIBUTION SWITCHBOARD



KEY PLAN

NOT TO SCALE

JEFFERSON CHILLER DAVIS REPLACEMENT MIDDLE SCHOOL

ROACH

ELECTRICAL LEGEND, NOTES AND DETAILS

TODDS LANE HAMPTON VIRGINIA 23666

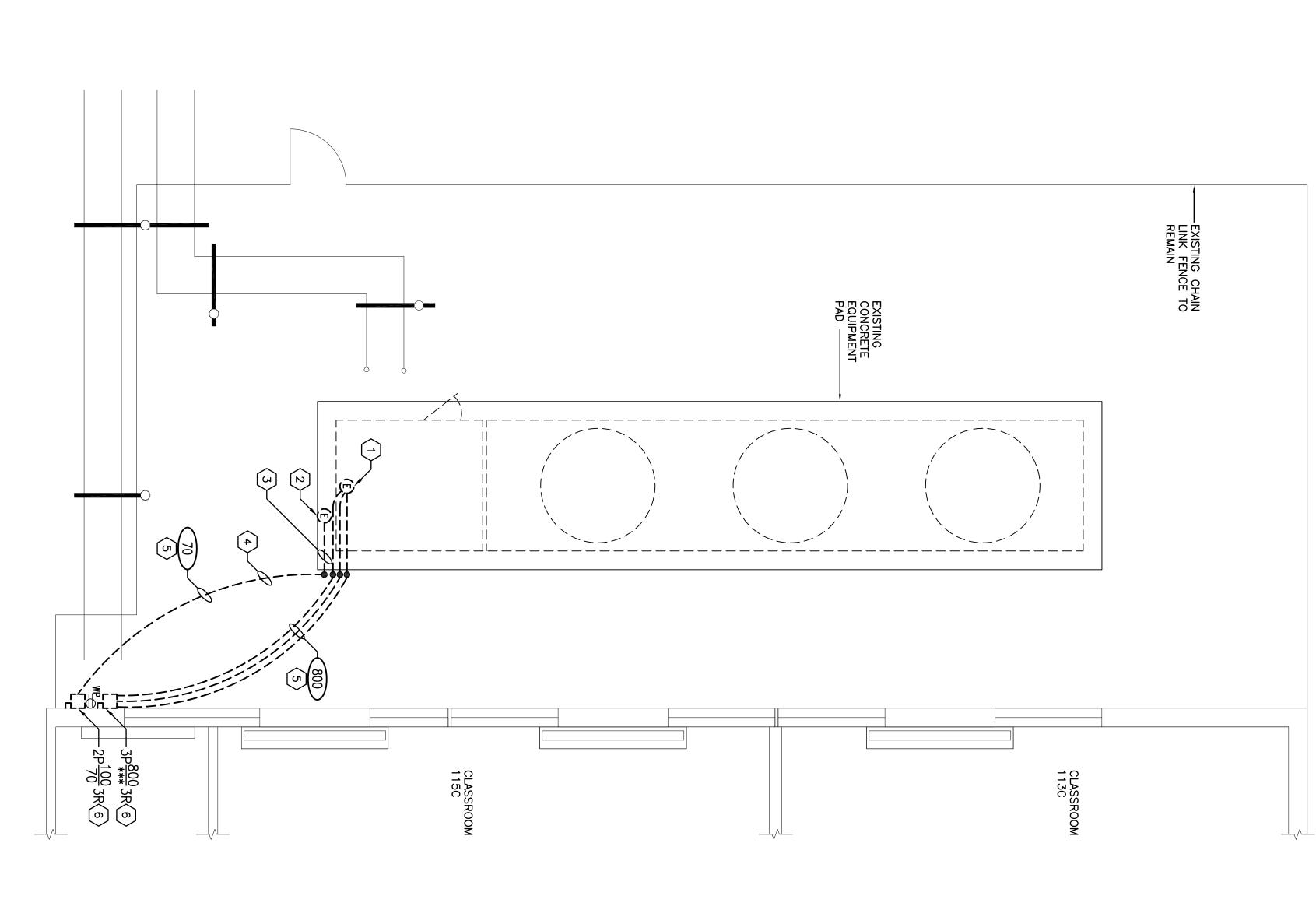
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DRAWN BY A'S FIRST EDUCATION

TO THE STANDING STAND ENGINEERS
LEGE FLACE SUITE 109 B
OLK, VIRGINIA 2350
1-9100 FAX: 627-9250
Ichconsultingengineers.com T EILZŒKATD KDACH 2 CHECKED BY DFR DRAWING No. 두 15088 CHILLER.dwg DATE 11/25/15 SCALE AS NOTED

No. 028187 11/25/15





## DEMOLITION

EXISTING FEEDER SCHEDULE

CONDUIT

NO. SIZE

NUMBER & SIZE PER CONDUIT

NUMBER & SIZE PER CONDUIT

3 3" THREE 300 KCMIL AND ONE #1/0 GROUND

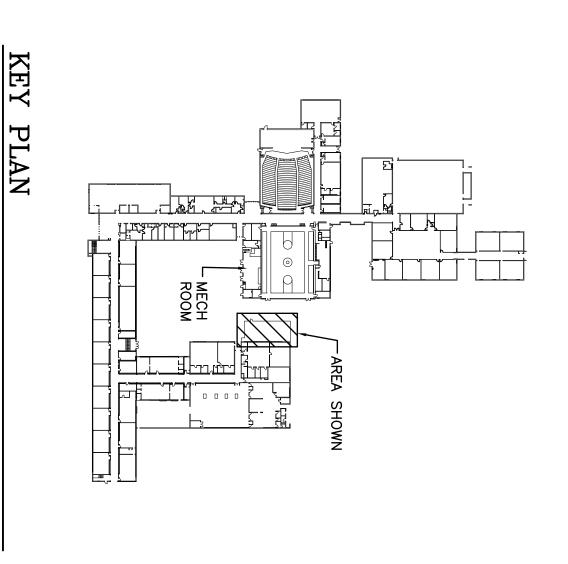
NUMBER & SIZE PER CONDUIT
THREE 300 KCMIL AND ONE #1/0 GROUND
TWO #4 AND ONE #8 GROUND

NOTES

- (1) DISCONNECT HEAT TAPE AND LIGHTING CIKCUIT.
  (2) DISCONNECT HEAT TAPE AND LIGHTING CIKCUIT.
  (3) REMOVE EXISTING HEAT TAPE FACTORY MOUNTED ON CHILLER.
  (4) REMOVE EXISTING CONDUCTORS. CONDUITS SHALL REMAIN FOR RE—USE.
  (5) REMOVE EXISTING DISCONNECT SWITCH. EXISTING LINE SIDE CONDUIT AND CONDUCTORS SHALL REMAIN FOR RE—USE.
  - GENERAL STORE ALL EQUIPMENT TO BE REUSED IN BACK OF BUILDING. CLEAN AND VERIFY PROPER OPERATION BEFORE REINSTALLING. REMOVE ALL TRASH AND DEMOLITION MATERIAL FROM SITE DAILY. ALL DEMOLITION MATERIAL SHALL BECOME THE CONTRACTORS RESPONSIBILITY. DEMOLITION NOTES
  - DO NOT BLOCK OR OBSTRUCT PARKING LOT, EASEMENT, ETC. FOR STORING NEW EQUIPMENT. COORDINATE ALL CONSTRUCTION AND DEMOLITION WITH OWNER.

  - IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO PROTECT AND RETAIN POWER TO ALL EXISTING ACTIVE EQUIPMENT WHICH SHALL REMAIN. ITEMS NOT SPECIFICALLY IDENTIFIED FOR REMOVAL SHALL REMAIN.
- DISCONNECT, REMOVE OR RELOCATE ALL ELECTRICAL MATERIAL AND EQUIPMENT THAT INTERFERES WITH NEW INSTALLATION. REMOVE ALL CONDUIT AND WIRING OF INACTIVE CIRCUITS COMPLETE BACK TO THEIR ORIGIN AT THE ASSOCIATED PANELBOARD UNLESS OTHERWISE NOTED.
- COORDINATE WORK SCHEDULE IN EXISTING BUILDING WITH OWNER'S REPRESENTATIVE.
- ANY ELECTRICAL OUTAGES REQUIRED BY THE WORK SHALL BE COORDINATED WITH OWNER'S REPRESENTATIVE AND CONFIRMED IN WRITING. ANY OUTAGE SHALL NOT BE SCHEDULED DURING NORMAL BUSINESS HOURS AND ALL COSTS FOR OVERTIME SHALL BE INCLUDED IN THE BID. ANY DAMAGE DONE BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL CHARGE.

10.



NOT TO SCALE

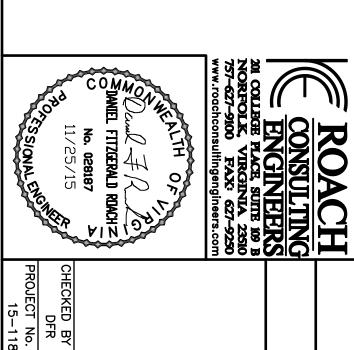
JEFFERSON DAVIS

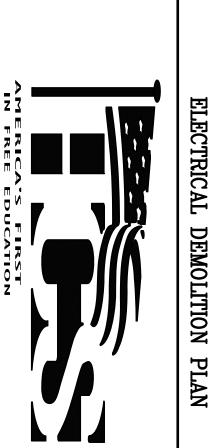
MIDDLE

SCHOOL

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CHILLER REPLACEMENT
1435 TODDS LANE HAMPTON
VIRGINIA 23666





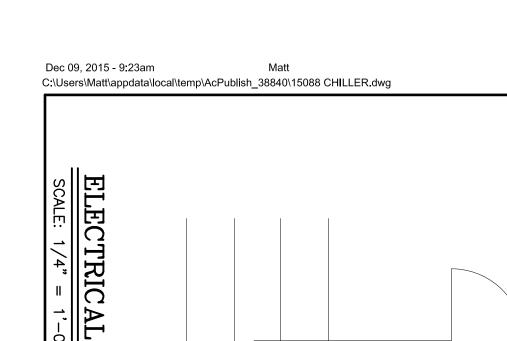
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DRAWN BY

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DRAWING No.

15088 CHILLER.dwg 11/25/15 SCALE AS NOTED



NEW

WORK

PLAN

H

BID

ELECTRICAL

SCALE: 1/4" = 1'-0"

NEW

WORK

PLAN

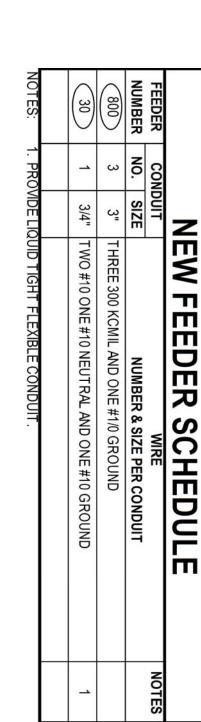
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OPTION

15088 CHILLER.dwg

11/25/15

SCALE AS NOTED



EK SCHEDULE	
WIRE	NOTES
MBER & SIZE PER CONDUIT	
ONE #1/0 GROUND	
TRAL AND ONE #10 GROUND	1

- NEW WORK NOTES
- CONNECT NEW TRANE SCREW CHILLER DRAWINGS FOR CLARIFICATION OF BID REFER OPTIONS. 0**T**

GENERAL

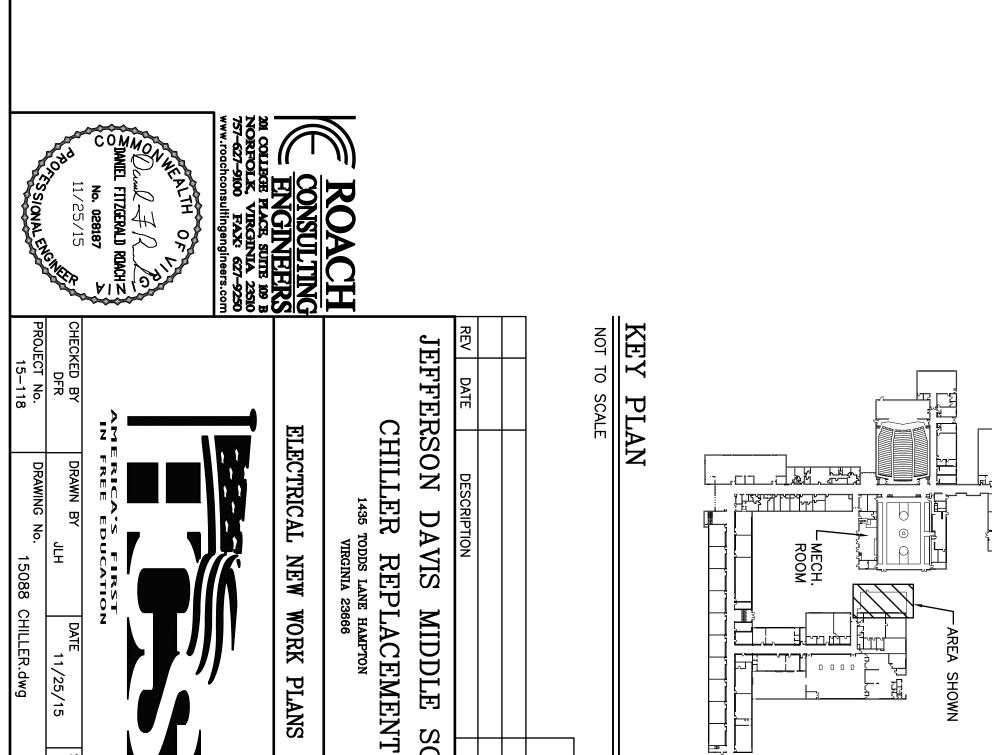
ELECTRICAL

NOTES

- CONNECT NEW MULTISTACK CHILLER. FOR CLARIFICATION OF BID OPTIONS. REFER TO MECHANICAL DRAWINGS
- EXTEND HEAT TAPE CIRCUIT. RUN THROUGH BASE OF CHILLER. COORDINATE LOCATION OF CHILLER HEAT TAPE WITH THE CHILLER MANUFACTURER.

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- HEAT TAPE CONNECTION.



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THE CONSTRUCTION CONTRACT DRAWINGS ARE BASED UPON AS-BUILT DRAWINGS AND VISUAL FIELD OBSERVATIONS AND WITHOUT DE-ENERGIZING ANY ELECTRICAL CIRCUITS AS REQUIRED TO OBTAIN DETAILED INFORMATION. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS OF ALL AFFECTED CIRCUITRY AND EQUIPMENT. THE EXISTING CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE ACTUAL SIZES AND TYPES OF EXISTING CONDUCTORS AND CONDUITS THAT ARE BEING EXTENDED AS PART OF THE CONTRACT. UNLESS SPECIFICALLY NOTED TO BE EXISTING, ALL WORK AND MATERIAL SHOWN IS NEW AND SHALL BE PROVIDED BY THE CONTRACTOR. WHEREVER A "NEW TO EXISTING" ELECTRICAL CONNECTION IS REQUIRED, PROVIDE ALL ACCESSORIES, SPLICES, CONDUIT, FITTINGS, AND MISCELLANEOUS HARDWARE AND COMPONENTS AS NECESSARY TO EFFECT THE CONNECTIONS. PROVIDE ALL DRILLING, CUTTING AND PATCHING AS NECESSARY TO PROPERLY INSTALL ELECTRICAL CONDUITS AND ALL MATERIALS PROVIDED UNDER THE CONTRACT.

ALL WORK SHALL BE SCHEDULED AT TIMES THAT ARE CONVENIENT AND ACCEPTABLE TO THE OWNER. ENTIRE FACILITY SHALL REMAIN OPERATIONAL DURING THE ENTIRE CONSTRUCTION PERIOD. ALL REQUIRED POWER OUTAGES SHALL BE PLANNED AHEAD OF TIME SO THAT THE DURATION OF EACH OUTAGE IS MINIMIZED. PROVIDE ALL NEW CONSTRUCTION TO THE FULLEST EXTENT POSSIBLE PRIOR TO ANY GIVEN OUTAGE. WHERE A UTILITY COMPANY IS REQUIRED TO SHUTDOWN OR DE-ENERGIZE THEIR SYSTEM, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE RESPECTIVE UTILITY COMPANY AND COORDINATING ALL ASSOCIATED EFFORTS. PROVIDE WRITTEN NOTICE TO THE OWNER OF ANY PLANNED POWER OUTAGE. NOTICE SHALL BE GIVEN TO THE OWNER A MINIMUM OF FOURTEEN DAYS PRIOR TO PLANNED OUTAGE. NO OUTAGE SHALL BE ALLOWED UNLESS SPECIFICALLY APPROVED IN WRITING BY THE OWNER.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING ALL EXTERIOR SURFACES REQUIRED FOR PROPER INSTALLATION. ALL FINISHES SHALL BE REPAIRED AND PAINTED TO MATCH EXISTING SURROUNDING FINISHES.

EXISTING CHAIN LINK

-CONCRETE EQUIPMENT PAD

MOC

EXISTING CHAIN LINK FENCE TO REMAIN

- CONCRETE EQUIPMENT PAD

CLASSROOM 113C

CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COST AND/OR DESIGN CHANGES REQUIRED IF A CHILLER SUBSTITUTION IS ACCEPTED BY THE OWNER.

AREA SHOWN